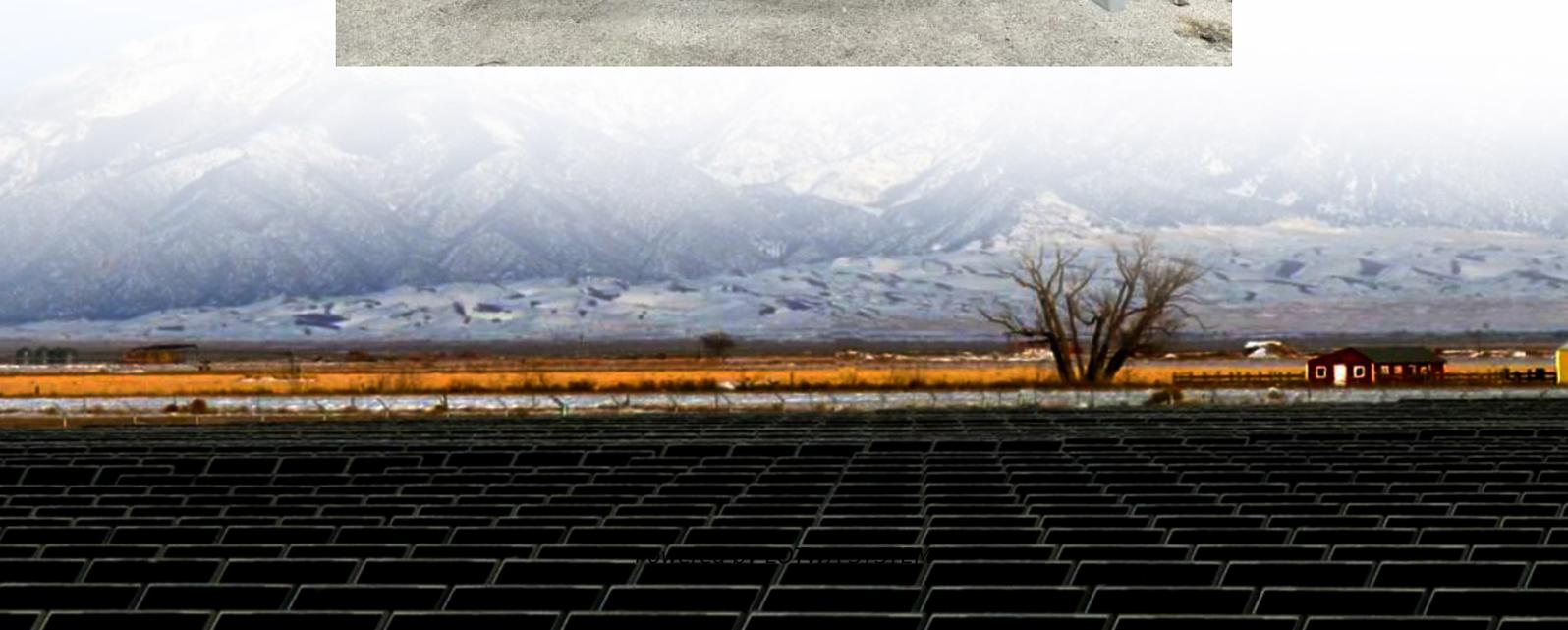


# What does 1 watt of solar panel mean





## Overview

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What is solar wattage?

Wattage refers to the amount of electrical power a solar panel can produce under standard test conditions (STC), which simulate a bright sunny day with optimal solar irradiance ( $1,000 \text{ W/m}^2$ ), a cell temperature of  $25^\circ\text{C}$ , and clean panels. In simpler terms, a panel's wattage rating tells you its maximum power output under ideal conditions.

What wattage does a solar panel produce?

Under STC, the tested panel produced the rated wattage under 1,000 watts per square meter of sunlight,  $25^\circ\text{C}$  cell temperature, and 1.5 air mass. Simply put, the solar panel wattage directly determines how much electricity a rooftop solar system can produce.

How do you calculate solar panel wattage?

Divide the average daily wattage usage by the average sunlight hours to measure solar panel wattage. Panel output efficiency, energy usage, sunshine exposure, system capacity, panel types, and materials all impact the calculation.

What is the difference between solar panel wattage and output?

Solar panel wattage is the lab fixed rating. Solar panel output, on the other hand, is the actual DC power the panel will generate in the real world. In general, the solar panel output is usually lower than the rated solar panel wattage. What factors affect the solar panel output?

Heat, shade, dust, tilt/orientation, weather, and sunlight strength.



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